

## ABSTRACT OF THE DISCLOSURE

The invention comprises particle forming methods, laser pyrolysis particle forming methods, chemical mechanical polishing slurries, and chemical mechanical polishing processes. In but one preferred implementation, a particle forming method includes feeding a first set of precursors to a first energy application zone. Energy is applied to the first set of precursors in the first energy application zone effective to react and form solid particles from the first set of precursors. Application of any effective energy to the solid particles is ceased and the solid particles and a second set of precursors are fed to a second energy application zone. Energy is applied to the second set of precursors in the second energy application zone effective to react and form solid material about the solid particles from the second set of precursors. Preferably, at least one of the first and second applied energies comprises laser energy. In one implementation, a chemical mechanical polishing slurry comprises liquid and abrasive solid components. At least some of the abrasive solid component comprises individually non-homogeneous abrasive particles. In one implementation, a chemical mechanical polishing process includes rotating at least one of a semiconductor substrate and polishing pad relative to the other. A chemical mechanical polishing slurry is provided intermediate the substrate and pad, and the substrate is polished with the slurry and pad during the rotating. The chemical mechanical polishing slurry comprises liquid and abrasive solid components. At least some of the abrasive

1 solid component comprises individually non-homogeneous abrasive  
2 particles.  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24